Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 09/884,767

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1	Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2	Invalid Line Length	The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
3	Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
4	Non-ASCII	The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**
5	Variable Length	Sequence(s)____contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6	PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
7	Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
8	Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If **intentional**, please insert the following lines for **each** skipped sequence. <210> sequence id number <400> sequence id number 000
9	Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
10 ✓	Invalid <213> Response	Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
11	Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
12	PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

OIPE

RAW SEQUENCE LISTING DATE: 07/24/2001
PATENT APPLICATION: **US/09/884,767** TIME: 07:52:05

Input Set : **A:\DYX-012.1 US seqlist.txt**
Output Set: **N:\CRF3\07242001\I884767.raw**

```
      3 <110> APPLICANT: DYAX Corp.
      4       Ley, Arthur C.
      5       Luneau, Christopher J.
      6       Ladner, Robert C
      8 <120> TITLE OF INVENTION: NOVEL ENTEROKINASE CLEAVAGE SEQUENCES
     10 <130> FILE REFERENCE: DYX-012.1 US, DYX-012.1 PCT
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/884,767
     13 <141> CURRENT FILING DATE: 2001-06-19
     15 <150> PRIOR APPLICATION NUMBER: US 09/597,321
     16 <151> PRIOR FILING DATE: 2000-06-19
     18 <160> NUMBER OF SEQ ID NOS: 217
     20 <170> SOFTWARE: PatentIn version 3.1
     22 <210> SEQ ID NO: 1
     23 <211> LENGTH: 9
     24 <212> TYPE: PRT
     25 <213> ORGANISM: synthetic enterokinase cleavage sequence
     27 <220> FEATURE:
     28 <221> NAME/KEY: MISC_FEATURE
     29 <222> LOCATION: (1)..(1)
     30 <223> OTHER INFORMATION: Xaa1 is an optional polypeptide of one or more amino acids
     33 <220> FEATURE:
     34 <221> NAME/KEY: MISC_FEATURE
     35 <222> LOCATION: (2)..(2)
     36 <223> OTHER INFORMATION: Xaa2 is an optional amino acid which, if present, is Ala,
Asp, Gl
     37       u, Phe, Gly, Ile, Asn, Ser, or Val
     40 <220> FEATURE:
     41 <221> NAME/KEY: MISC_FEATURE
     42 <222> LOCATION: (3)..(3)
     43 <223> OTHER INFORMATION: Xaa3 is an optional amino acid which, if present, is Ala,
Asp, Gl
     44       u, His, Ile, Leu, Met, Gln or Ser
     47 <220> FEATURE:
     48 <221> NAME/KEY: MISC_FEATURE
     49 <222> LOCATION: (4)..(4)
     50 <223> OTHER INFORMATION: Xaa4 is an optional amino acid which, if present, is Asp,
Glu, Ph
     51       e, His, Ile, Met, Asn, Pro, Val, or Trp
     54 <220> FEATURE:
     55 <221> NAME/KEY: MISC_FEATURE
     56 <222> LOCATION: (5)..(5)
     57 <223> OTHER INFORMATION: Xaa5 is Ala, Asp, Glu, or Thr
     60 <220> FEATURE:
     61 <221> NAME/KEY: MISC_FEATURE
     62 <222> LOCATION: (8)..(8)
     63 <223> OTHER INFORMATION: Xaa8 is any amino acid
     66 <220> FEATURE:
     67 <221> NAME/KEY: MISC_FEATURE
     68 <222> LOCATION: (9)..(9)
     69 <223> OTHER INFORMATION: Xaa9 is an optional polypeptide of at least one amino acid
```

Does Not Comply
Corrected Diskette Needed
See page 2, ES

See item #10 on ERROR Summary SHEET.

Xaa can only be a single amino acid

each Xaa can only be equal to one amino acid.

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PATENT APPLICATION: US/09/884,767 TIME: 07:52:05

Input Set : A:\DYX-012.1 US seqlist.txt
Output Set: N:\CRF3\07242001\I884767.raw

```
     72 <400> SEQUENCE: 1
W--> 74 Xaa Xaa Xaa Xaa Xaa Asp Arg Xaa Xaa
     75 1               5
     78 <210> SEQ ID NO: 2
     79 <211> LENGTH: 9
     80 <212> TYPE: PRT
     81 <213> ORGANISM: synthetic enterokinase cleavage sequence
     83 <220> FEATURE:
     84 <221> NAME/KEY: MISC_FEATURE
     85 <222> LOCATION: (1)..(1)
     86 <223> OTHER INFORMATION: Xaa1 is an optional polypeptide of one or more amino acids
     89 <220> FEATURE:
     90 <221> NAME/KEY: MISC_FEATURE
     91 <222> LOCATION: (2)..(2)
     92 <223> OTHER INFORMATION: Xaa2 is an optional amino acid which, if present, is Asp or
Glu
     95 <220> FEATURE:
     96 <221> NAME/KEY: MISC_FEATURE
     97 <222> LOCATION: (3)..(3)
     98 <223> OTHER INFORMATION: Xaa3 is an optional amino acid which, if present, is Val
    101 <220> FEATURE:
    102 <221> NAME/KEY: MISC_FEATURE
    103 <222> LOCATION: (4)..(4)
    104 <223> OTHER INFORMATION: Xaa4 is an optional amino acid which, if present, is Tyr
    107 <220> FEATURE:
    108 <221> NAME/KEY: MISC_FEATURE
    109 <222> LOCATION: (5)..(5)
    110 <223> OTHER INFORMATION: Xaa5 is Asp, Glu or Ser
    113 <220> FEATURE:
    114 <221> NAME/KEY: MISC_FEATURE
    115 <222> LOCATION: (8)..(8)
    116 <223> OTHER INFORMATION: Xaa8 is any amino acid
    119 <220> FEATURE:
    120 <221> NAME/KEY: MISC_FEATURE
    121 <222> LOCATION: (9)..(9)
    122 <223> OTHER INFORMATION: Xaa9 is an optional polypeptide of one or more amino acid
    125 <400> SEQUENCE: 2
W--> 127 Xaa Xaa Xaa Xaa Xaa Glu Arg Xaa Xaa
    128 1               5
    131 <210> SEQ ID NO: 3
    132 <211> LENGTH: 7
    133 <212> TYPE: PRT
    134 <213> ORGANISM: synthetic enterokinase cleavage sequence
    136 <220> FEATURE:
    137 <221> NAME/KEY: MISC_FEATURE
    138 <222> LOCATION: (7)..(7)
    139 <223> OTHER INFORMATION: Xaa is any amino acid
    142 <400> SEQUENCE: 3
W--> 144 Asp Ile Asn Asp Asp Arg Xaa
    145 1               5
```

see page 1

see page 1

see page 1

see page 1

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

RAW SEQUENCE LISTING DATE: 07/24/2001
PATENT APPLICATION: US/09/884,767 TIME: 07:52:05

Input Set : A:\DYX-012.1 US seqlist.txt
Output Set: N:\CRF3\07242001\I884767.raw

148 <210> SEQ ID NO: 4
149 <211> LENGTH: 7
150 <212> TYPE: PRT
151 <213> ORGANISM: synthetic enterokinase cleavage sequence
153 <220> FEATURE:
154 <221> NAME/KEY: MISC_FEATURE
155 <222> LOCATION: (7)..(7)
156 <223> OTHER INFORMATION: Xaa is any amino acid
159 <400> SEQUENCE: 4
W--> 161 Gly Asn Tyr Thr Asp Arg Xaa
162 1 5
165 <210> SEQ ID NO: 5
166 <211> LENGTH: 6
167 <212> TYPE: PRT
168 <213> ORGANISM: streptavidin binding sequence — see page 1
170 <400> SEQUENCE: 5
172 Cys His Pro Gln Phe Cys
173 1 5
176 <210> SEQ ID NO: 6
177 <211> LENGTH: 4
178 <212> TYPE: PRT
179 <213> ORGANISM: streptavidin binding sequence
181 <400> SEQUENCE: 6
183 His Pro Gln Phe
184 1
187 <210> SEQ ID NO: 7
188 <211> LENGTH: 9
189 <212> TYPE: PRT
190 <213> ORGANISM: streptavidin binding sequence
192 <400> SEQUENCE: 7
194 Cys His Pro Gln Phe Cys Ser Trp Arg
195 1 5
198 <210> SEQ ID NO: 8
199 <211> LENGTH: 6
200 <212> TYPE: PRT
201 <213> ORGANISM: enterokinase cleavage sequence
203 <220> FEATURE:
204 <221> NAME/KEY: MISC_FEATURE
205 <222> LOCATION: (6)..(6)
206 <223> OTHER INFORMATION: Xaa is Ile (natural trypsinogen site) or any amino acid (syntheti
207 c cleavage sites)
210 <400> SEQUENCE: 8
W--> 212 Asp Asp Asp Asp Lys Xaa
213 1 5
216 <210> SEQ ID NO: 9
217 <211> LENGTH: 86
218 <212> TYPE: PRT
219 <213> ORGANISM: exogenous display polypeptide of a phage display library
221 <220> FEATURE:

RAW SEQUENCE LISTING DATE: 07/24/2001
PATENT APPLICATION: US/09/884,767 TIME: 07:52:05

Input Set : A:\DYX-012.1 US seqlist.txt
Output Set: N:\CRF3\07242001\I884767.raw

```
    222 <221> NAME/KEY: MISC_FEATURE
    223 <222> LOCATION: (43)..(55)
    224 <223> OTHER INFORMATION: X is any amino acid except Cys
    227 <400> SEQUENCE: 9
    229 Ala Glu Trp His Pro Gln Phe Ser Ser Pro Ser Ala Ser Arg Pro Ser
    230 1               5                   10                  15
    233 Glu Gly Pro Cys His Pro Gln Phe Pro Arg Cys Tyr Ile Glu Asn Leu
    234             20                  25                  30
W--> 237 Asp Glu Phe Arg Pro Gly Gly Ser Gly Gly Xaa Xaa Xaa Xaa Xaa Xaa
    238         35                  40                  45
W--> 241 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gly Ala Gln Ser Asp Gly Gly Gly Ser
    242     50                  55                  60
    245 Thr Glu His Ala Glu Gly Gly Ser Ala Asp Pro Ser Tyr Ile Glu Gly
    246 65                  70                  75                  80
    249 Arg Ile Val Gly Ser Ala
    250                 85
    253 <210> SEQ ID NO: 10
    254 <211> LENGTH: 7
    255 <212> TYPE: PRT
    256 <213> ORGANISM: synthetic enterokinase cleavage sequence
    258 <400> SEQUENCE: 10
    260 Tyr Glu Trp Gln Asp Arg Thr
    261 1               5
    264 <210> SEQ ID NO: 11
    265 <211> LENGTH: 7
    266 <212> TYPE: PRT
    267 <213> ORGANISM: synthetic enterokinase cleavage sequence
    269 <400> SEQUENCE: 11
    271 Asn Ser Ile Lys Asp Arg Val
    272 1               5
    275 <210> SEQ ID NO: 12
    276 <211> LENGTH: 7
    277 <212> TYPE: PRT
    278 <213> ORGANISM: synthetic enterokinase cleavage sequence
    280 <400> SEQUENCE: 12
    282 Ala Lys Ala Thr Glu Arg His
    283 1               5
    286 <210> SEQ ID NO: 13
    287 <211> LENGTH: 7
    288 <212> TYPE: PRT
    289 <213> ORGANISM: synthetic enterokinase cleavage sequence
    291 <400> SEQUENCE: 13
    293 Leu Gly Lys Val Asp Arg Thr
    294 1               5
    297 <210> SEQ ID NO: 14
    298 <211> LENGTH: 7
    299 <212> TYPE: PRT
    300 <213> ORGANISM: synthetic enterokinase cleavage sequence
    302 <400> SEQUENCE: 14
```

See page 1

RAW SEQUENCE LISTING DATE: 07/24/2001
PATENT APPLICATION: US/09/884,767 TIME: 07:52:05

Input Set : A:\DYX-012.1 US seqlist.txt
Output Set: N:\CRF3\07242001\I884767.raw

304 Gly Gly Met Ala Asp Lys Phe
305 1 5
308 <210> SEQ ID NO: 15
309 <211> LENGTH: 7
310 <212> TYPE: PRT
311 <213> ORGANISM: synthetic enterokinase cleavage sequence
313 <400> SEQUENCE: 15
315 Gly His Trp Leu Asp Lys Asn
316 1 5
319 <210> SEQ ID NO: 16
320 <211> LENGTH: 7
321 <212> TYPE: PRT
322 <213> ORGANISM: synthetic enterokinase cleavage sequence
324 <400> SEQUENCE: 16
326 Asn Lys Ala Lys Asp Arg Met
327 1 5
330 <210> SEQ ID NO: 17
331 <211> LENGTH: 7
332 <212> TYPE: PRT
333 <213> ORGANISM: synthetic enterokinase cleavage sequence
335 <400> SEQUENCE: 17
337 Ser Glu Asn Phe Asp Lys Asn
338 1 5
341 <210> SEQ ID NO: 18
342 <211> LENGTH: 7
343 <212> TYPE: PRT
344 <213> ORGANISM: synthetic enterokinase cleavage sequence — see page 1
346 <400> SEQUENCE: 18
348 Leu Asp Trp Glu Asp Arg Ala
349 1 5
352 <210> SEQ ID NO: 19
353 <211> LENGTH: 7
354 <212> TYPE: PRT
355 <213> ORGANISM: synthetic enterokinase cleavage sequence
357 <400> SEQUENCE: 19
359 Ser Thr Asp Ala Glu Arg Met
360 1 5
363 <210> SEQ ID NO: 20
364 <211> LENGTH: 7
365 <212> TYPE: PRT
366 <213> ORGANISM: synthetic enterokinase cleavage sequence
368 <400> SEQUENCE: 20
370 His Thr Phe Ser Asp Arg Gln
371 1 5
374 <210> SEQ ID NO: 21
375 <211> LENGTH: 7
376 <212> TYPE: PRT
377 <213> ORGANISM: synthetic enterokinase cleavage sequence
379 <400> SEQUENCE: 21

FYI.

Please Note:
Use f n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields f each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY DATE: 07/24/2001
PATENT APPLICATION: **US/09/884,767** TIME: 07:52:06

Input Set : **A:\DYX-012.1 US seqlist.txt**
Output Set: **N:\CRF3\07242001\I884767.raw**

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number
L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:2400 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:204
L:2417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:205
L:2461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206
L:2502 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:207